



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandra, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/077,665	02/14/2002	Garrett Andrew Smith	_	2982
26375	7590 07/30/2004		EXAM	INER
SINSHEIM 1010 PEACH	ER, SCHIEBELHUT, I I STREET	CHARLES,	CHARLES, MARCUS	
SAN LUIS OBISPO, CA 93401			ART UNIT	PAPER NUMBER
			3682	
			DATE MAIL ED: 07/30/2004	•

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/077,665	SMITH, GARRETT ANDREW			
Office Action Summary	Examiner	Art Unit			
	Marcus Charles	3682			
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet w	vith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a ly within the statutory minimum of thin will apply and will expire SIX (6) MON e. cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133)			
Status					
1) Responsive to communication(s) filed on <u>06-0</u>	<u>18-2004</u> .				
2a) This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	<i>≣x parte Quayle</i> , 1935 C.E). 11, 453 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 1-12 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to drawing(s) be held in abeyar tion is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in A rity documents have been u (PCT Rule 17.2(a)).	application No received in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Thterview S	Summary (PTO-413)			
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s	s)/Mail Date oformal Patent Application (PTO-152)			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

Application/Control Number: 10/077,665

Art Unit: 3682

DETAILED ACTION

This action is responsive to the amendment / argument filed 06-08-2004, which has been entered. Claims 1-12 are currently pending.

Response to Arguments

1. Applicant's arguments, filed 06-08-2004, with respect to the rejection(s)of claim(s) 1-12 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Dzus (2,511,051) as set forth below.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 1, 3, 4, 6, 7, 9, 10 and 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over WO (9308071) in view of Dzus (2,511,051). WO (9308071) discloses a fastener assembly (107,109) for attaching a chainring to a bicycle, the device comprising a nut (107) comprising an internally threaded cylinder, an external flange (not labeled) on one end and a hole in the cylinder; a bolt (109) threadably engages the nut and comprising a tool interface (not labeled) formed inside the shaft. WO (9308071) dose not disclose a tool interface means formed inside the cylinders. Dzus discloses a fastener system (10, 11) comprising a nut (11) having a threaded cylinder (16) with internal threads (18)

Application/Control Number: 10/077,665

Art Unit: 3682

7

and a tool interface means (19) formed in the cylinder, the bolt (10) having a external threaded cylinder (12/14) with a tool interface (15) inside the cylinder in order to facilitate proper alignment between the bolt and nut thus minimizing cross-threading before tighten fastening the device and to allow quick and easy removal without the bolt and nut turning in unison. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the fastening device of WO (9308071) so that the nut and bolt, each has a tool interface in the threaded cylinders in view of Dzus in order to facilitate proper alignment between the bolt and nut thus minimizing cross-threading before tighten the fastening device and to allow quick release and by fastening/turning the bolt and nut simultaneously and to allow quick and easy removal without the bolt and nut turning in unison.

Regarding claims 3, 6 and 9, note the tool interfaces (15 and 19) of Dzus device have different sizes.

In claim 10, not the tool interface of the nut faces the out side of the crank handle.

4. Claims 2, 5 and 8 rejected under 35 U.S.C. 103(a) as being unpatentable over WO (9308071) in view of Dzus. WO (9308071) and Dzus do disclose that the tool interface means in the nut and bolt have the same size. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the fastening device of WO (9308071) in view of Dzus so that the tool interfaces are of same size, since such a modification would have been a matter of design choice, and such a modification would involve a mere change in weight

Application/Control Number: 10/077,665

Art Unit: 3682

>

and cost of manufacturing. A change in size is generally recognized as being within the level of ordinary skill in the art. In Rose, 105 USPQ 237 (CCPA 1955)

5. Claims 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO (9308071) in view of Kirrish. WO (9308071) in view of Kirrish do not disclose the nut toll inter face means faces the outside of the crank handle. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the fastening device of WO (9308071) so that the too interface means faces the outside of the crank handle, since this involves rearranging the nut and bolt to face a different direction and it has been held that rearranging parts of an invention involves only routine skill in the art. In re Japikse, 86 USPQ 70.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Pratt (6,261,042) discloses a nut having a cylindrical shaft with an internal threaded hole and a tool interface. Kemper (2,424,212) discloses a nut having a cylindrical shaft comprising an external threaded shaft and a tool interface in the threaded shaft.

Art Unit: 3682

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcus Charles whose telephone number is (703) 305-6877. The examiner can normally be reached on Monday-Thursday 7:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bucci can be reached on (703) 308-3668. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Marcus Charles Primary Examiner Art Unit 3682

July 25, 2004